PROJECT DESCRIPTION

I. GENERAL

This project involves the relocation of the north leg crosswalk and the installation of a new crosswalk across the south leg of the MD 500 @ Beicrest and Queensbury Rd intersection. All existing pedestrian equipment will be upgraded to APS with Countdowns and all signals upgraded to LED's.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 6-phase, fully-actuated mode with pushbutton activated crossings on the North, South and West legs of the intersections. There is a hardwire pre-emption for the firehouse located in the SW corner of the intersection

III. CONTROLLER REQUIREMENTS

1. The existing controller shall be used and a 2-wire central control unit installed by the SHA signal shop. The CCU shall be delivered to the SHA Signal Shop for testing prior to its installation. All internal cabinet wiring will be done by SHA forces. Please contact Mr. Ed Rodenhizer at least 72 hours prior to any work.

IV. The pushbutton operation will be as follows:

NORTH LEG WAIT- WAIT TO CROSS QUEENS CHAPEL AT BELFAST AND QUEENSBURY. CROSSWALK ANGLES RIGHT SOUTH LEG WAIT- WAIT TO CROSS QUEENS CHAPEL AT BELFAST AND QUEENSBURY. CROSSWALK ANGLES RIGHT WEST LEG WAIT- WAIT TO CROSS BELFAST AT QUEENS CHAPEL. CROSSWALKS ANGLES LEFT.

ALL WALK MESSAGES SHALL BE IN THE FORM OF A RAPID TICK.

			and the second s							
	A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION						B. EC	UIPMENT TO	BE SUPPLIED AND/OR INSTALLED BY THE CONTACTOR	
	ITEM#	QUANTITY	ITEM DESCRIPTI	ON			ITEM#	QUANTITY	ITEM DESCRIPTION	
	9571	41.25 SF			M/POLE MOUNTED)		1.001	1 EA	MAINTENANCE OF TRAFFIC	
		*		2" W11-8(1) FIRE HOL 3(1) PUSHBUTTON TO (•	1002	700 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY W	IDTH 🔧
ı	٠,				CROSS QUEENS CHAPEL	RD	2002	6 CY	TEST PIT EXCAVATION	•
			•				5002		12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT N	
1	9571	20 SF		M SIGN SPAN WIR			5003	75 LF	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT N	MARK INGS
				3-(1)2_STREET NAME S 3-(1)2_STREET NAME S		250 LF		125 LF -	STANDARD TYPE A COMBINATION CURB AND GUTTER PAN. 8" DEF	·ΤΗ
	9570	84.375 SF		SIGN (GROUND N		2000 SF	6002	-1500 SF-	5" CONCRETE SIDEWALK	•
	3310	04.515 51		1 SCHOOL CROSSING SY			8001	12 EA	12" (R,Y,G) LED SIGNAL HEAD SECTION	
			- 1 EA 36"X36" W11-	-2 PEDESTRIAN CROSSI	ING SYMBOL		8003	1 EA	2 WIRE CENTRAL CONTROL UNIT	
	4			-7p RIGHT DIAGONAL A			8007	6 EA	8" (R,Y,G) LED SIGNAL HEAD SECTION	
1	* /			-7p LEFFT DIAGONAL A 2 LEFT DIAGONAL ARRO			8010	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND	SIGNS
			- 1 EA 12"X24" R4-	7(2) NARROW KEEP RIG	GHT SYMBOL		8011	6 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)	
	**	<u>.</u>		(1) KEEP RIGHT SYMBO			8014	6 EA	LED 16" COUNTDOWN PEDESTRIAN HEAD	* * * * * * * * * * * * * * * * * * * *
ı		*	- 1 EA 30"X30 R3-7	(L) LEFT LANE MUST T	IURN LEFT	,	8015	27 EA	LED SIGNAL HEAD MODULES (ANY SIZE)	1
				•			8016	1 EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT	:
1							8027	70 LF	UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	
		•			•	•	8028	170 SF	DETECTABLE WARNING SURFACES-BLACK	4
1		•		•			8032	146 LF	WOOD SIGN SUPPORTS 4"X6"	·
		,					8033	325 LF	#6 AWG STRANDED BARE COPPER GROUND WIRE	
1			•		€		8045	84.375 SF	INSTALL GROUND MOUNTED SIGN	
			4				8046	61.25 SF	INSTALL OVERHEAD MOUNTED SIGN	
ı	,						8052	4 EA	RELOCATE EXISTING SIGNAL HEAD	
							8055	1250 LF	ELECTRICAL CABLE-2 CONDUCTOR #14 AWG	
_							8057	1300 LF	ELECTRICAL CABLE-5 CONDUCTOR #14 AWG	•
1							8058	400 LF	ELECTRICAL CABLE-7 CONDUCTOR #14 AWG	
	,				•		8025	120 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	:
		8030	300 SF REM	MOVE AND RESET	DECORATIVE BRIC	K	8044	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE	

CONTACTS

DISTRICT

OFFICE OF TRAFFIC AND SAFETY

MR. BRIAN YOUNG ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7404

MR. RICHARD DAFF SR. CHIEF. TRAFFIC OPERATIONS 410-787-7630

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670

MR. AUGIE REBISH ASSISTANT DISTRICT ENGINEER - UTILITIES , 301-513-7350

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630

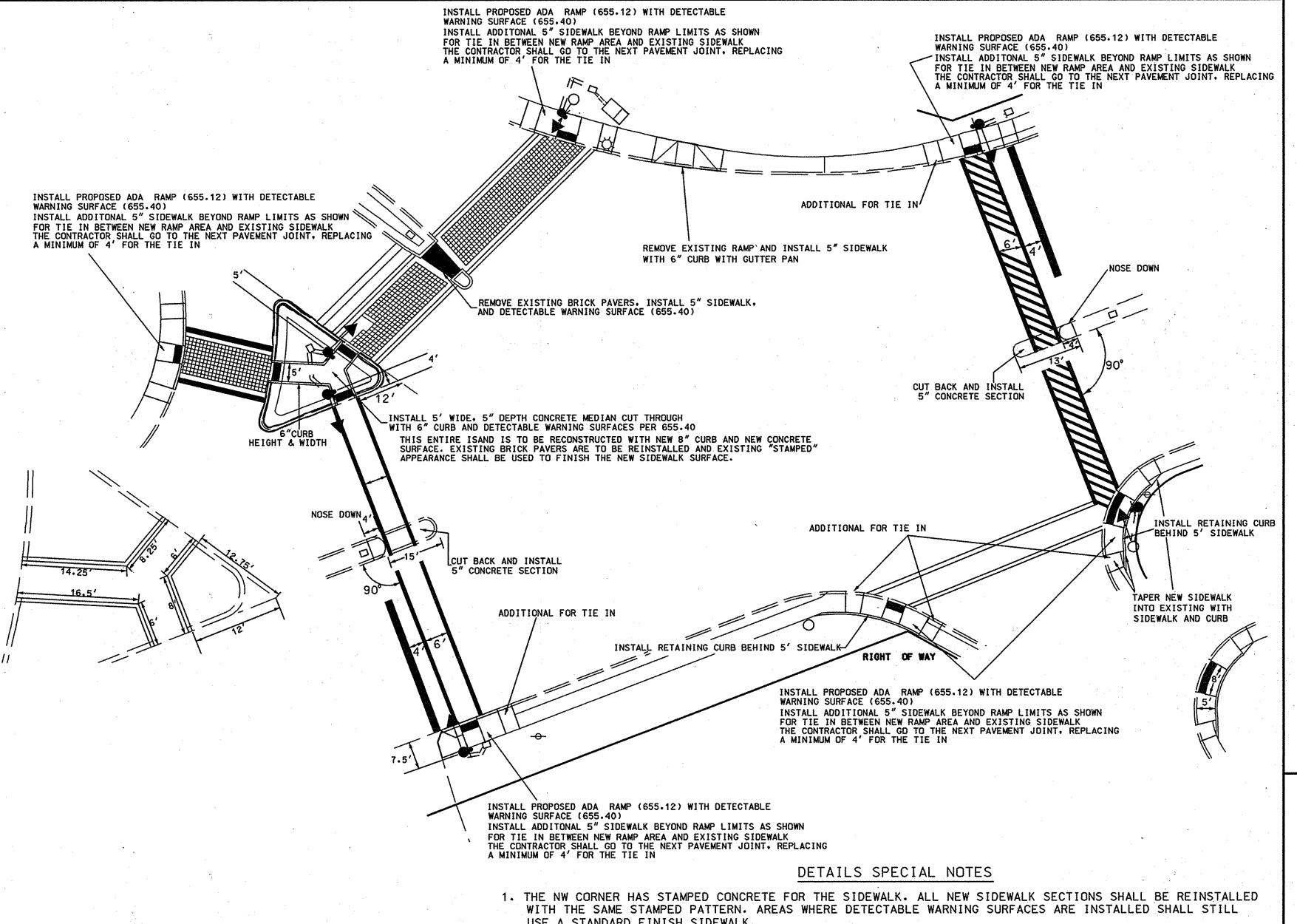
MR. WAYNE MOWDY

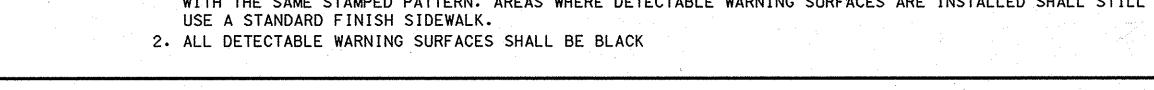
ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304

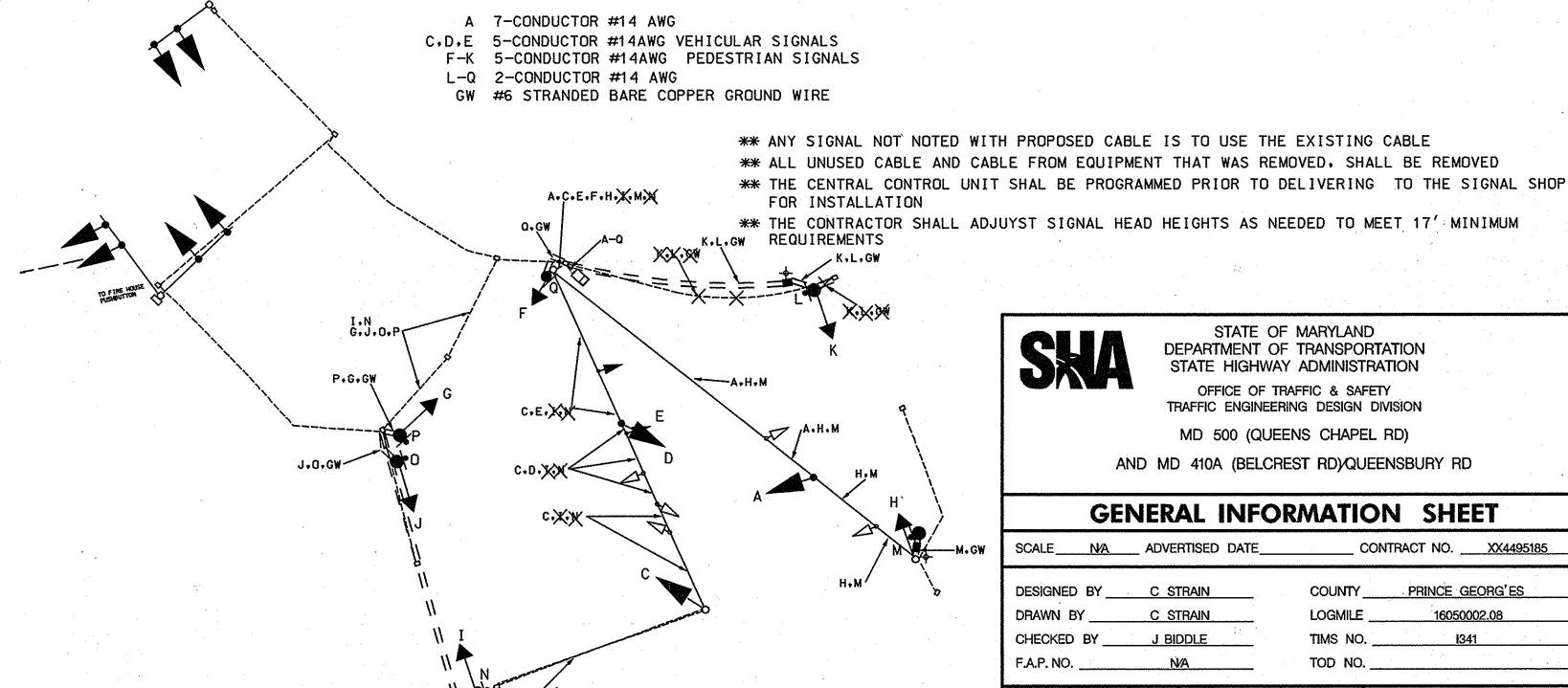
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650

GENERAL NOTES

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- 4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER
- 5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 6. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60"X60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 7. THE 10' SEPARATION BETWEN THE PUSHBUTTON IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF THE PUSHBUTTON, NOT FROM THE CENTER OF THE POLE TO THE CENTER OF THE POLE.
- 8. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18".
- 9. LOCATION OF ACCESSIBLE PEDESTRIN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRATICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT IS RESOLVED, OR IF NEEDED, A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 10. PUSHBUTTONS ARE TO BE INSTALLED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED







STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 500 (QUEENS CHAPEL RD)

AND MD 410A (BELCREST RD)/QUEENSBURY RD

GENERAL INFORMATION SHEET

CONTRACT NO. XX4495185 SCALE NA ADVERTISED DATE COUNTY PRINCE GEORG'ES DESIGNED BY _____ C STRAIN DRAWN BY C STRAIN LOGMILE ___ CHECKED BY TIMS NO. F.A.P. NO. TOD NO. TS NO.589-E-GI DRAWING SG-2 OF 2 SHEET NO. 2 OF 2

PLOTTED: Wednesday, June 04, 2008 AT 09:51 AM LE: M:\Designs\District 3\MD 410A @ MD 500\Redline 1\Redline-Gi Sheet.dg